UWM Capital at a Crossroads: 2019-2021 Capital Budget
### Students
- **21,303 FTE / 25,412 HC**
- Undergraduate / graduate: **20,777 / 4,635 (82% / 18%)**
- WI residents / non-residents: **20,758 / 4,434 (82% / 18%)**
- First generation students: **32%**
- Freshman students of color: **35%**

### Faculty / staff FTE
- **705 / 2,397**

### SE WI regional population
- **2,000,000**

### Operating Revenues
- **$547 M**

### Number of buildings
- **86**

### GSF / Acres
- **7,357,645 GSF / 570 acres**
UWM Strategic Priorities

- **Outstanding Learning Environment**
- **Exceptional Research University**
- **Community Engagement and Building the Talent Pipeline**

**Outcomes**
- Improved retention and graduation rates
- Magnified R1 impact
- Increased student employment and graduate school options
- Strengthened UWM, city, region and state
- Elevated value of a college degree
- Increased budget support
OVER 4 MILLION GSF, (59%) OF TOTAL UWM SPACE IS OVER 45 YEARS OLD
2010 Master Plan

2014 NWQ Redevelopment Plan

2015 SWQ Redevelopment Plan

2014 Student Union Predesign
Building Condition Assessment:
- Red: Threat of failure
- Black: Condition rating
- Gray: Enumerated project
- Yellow: Functional rating

UNION
CHEMISTRY
ENGINEERING
While WI has experienced enrollment declines, at UWM:

- *UWM’s overall student demand remains strong at ~25,000 students*
- *Headcount in STEM fields has continued to grow – about 30% over the last decade*
Northwest Quadrant Renovation (17-19 Approved Major Project)

- Regents requested $69 M to address 540,000 GSF
- Funding reduced in final 17-19 Capital Budget by 28%, to $52 M
- Other structural needs/expenses have since emerged
- Significant re-scoping required - will dramatically reduce SF addressed
  - NWQ-A (219K GSF) must be mothballed or demolished
  - Work in NWQ-B, NWQ-C, and NWQ-D reduced in scope
Chemistry Building & Central Utilities Extension

*Estimated Cost: ~$129.5 M GFSB*

- Top major project request in UW System
  - *Worst science building in UW System*

- Replaces UWM’s existing obsolete chemistry building and extends the central utilities to support a new building

- Located with other STEM facilities to support interdisciplinary instruction and research
  - Allows more efficient and effective delivery of similar utility and service needs
Chemistry Building & Central Utilities Extension

Chemistry Building Is Threatened by Catastrophic Failure

- The **structural system** intended to support a live load of *half the current building code requirement*
- The **HVAC system** is years beyond useful life, *inefficient and in poor condition*
- The **glass piping plumbing system breaks consistently**, causing flooding throughout the building and requiring intensive maintenance
Chemistry Building & Central Utilities Extension

Chemistry Building Is Threatened by Catastrophic Failure

- The *Laboratory systems are in very poor condition* throughout the teaching labs
- Over *440 service calls annually*; a majority are for HVAC and plumbing
- Minimum *required investment is over 75% of new building*
Chemistry Building & Central Utilities Extension

*Chemistry Is Important*

- All STEM fields at UWM are supported by Chemistry, including: Engineering, Nursing, Health Sciences, Physics, and Biosciences
  - 2400 students/year (~10% of all UWM students each year)

- Chemistry promotes economic development in WI
  - STEM jobs will grow faster than non-STEM jobs
  - STEM workers earn, on average, 26% more than workers in non-STEM fields
  - At $9.4B, the chemical industry is 6th largest manufacturing industry in Wisconsin

- Building condition impacts Chemistry accreditation and threatens many other STEM fields
Chemistry Building & Central Utilities Extension

Vision for the Future
Current Project: Major Repairs / Limited Renovation

- Repairs and replaces building systems and the exterior envelope
- Some renovation to improve functionality and use of space
- No additional segregated fee required
- This mainly addresses the oldest 1/3 of the building

Student Union Renovation Phase 1

*Estimated Cost ~$35.0 M PRSB / $5.7 M PR Cash*
Student Union Renovation Phase 1

Student Union Serves 22,000 people per day

64% of UWM students live in surrounding communities
20% of UWM students live nearby
16% of UWM students live on campus
Student Union Renovation Phase 1
*Rated “D” for Function and “F” for Condition*

- **Spalling, corrosion and delamination** of applied stucco coating
- **Inadequate drainage and water intrusion** issues on the exterior
- **Leaking at ‘cold’ joints** formed during the original construction
Student Union Renovation Phase 1

Rated “D” for Function and “F” for Condition
Student Union Renovation Phase 1
Rated “D” for Function and “F” for Condition

- **Sanitary drainage system (still original)** is reaching the end of its useful life
- **Electrical** equipment beyond 40 year life
- **Failure of the emergency generator** potential
- Major **air handling, heat exchanger, steam distribution** deficiencies, well beyond useful life
- **No market availability of parts**
Student Union Renovation Phase 1

Rated “D” for Function and “F” for Condition
Klotsche Annex

Estimated Cost = ~$7.0 M PR Cash

- UWM’s recreation space is 42% below national guidelines
  - Project will relieve recreational space currently used by Athletics
- Project will be paid with cash and gifts – no bonding
- Construction anticipated to begin in 2021
Engineering Building / Utilities Extension

*Estimated Cost ~$95.4 M GFSB / $7.8 M BTF*

- Part of the UW System STEM buildings 2021-2023 request
- 2019-21 – Planning*
  2021-23 – Advanced Enumeration
  *Planning now keeps construction inflation cost down
- Provides an Engineering academic facility, including a necessary extension of utilities to the SE corner of campus, and demolishes the existing Physics Building
Engineering Building / Utilities Extension

• Engineering enrollment has more than doubled since EMS opened in 1970
  • Has most of the original 48 year old equipment and no space for new programs

• New building will support instructional and research efforts involving UWM’s CEAS and its 120 business partners

• Provides space for:
  • Biomedical Engineering
  • Data analysis, visualization, machine learning, and artificial intelligence
  • Instructional spaces for electrical, environmental, industrial, and mechanical engineering in mechatronics and controls laboratories